# ENVELOPE COMPONENT METHOD ENV-2

| PROJECT NAME | DATE |
|---|---|
| | |

## WINDOW AREA CALCULATION and SKYLIGHT AREA CALCULATION

| GROSS WALL AREA (GWA) | | DISPLAY PERIMETER (DP) | |
|---|---|---|---|
| GWA x 0.40 | | DP x 6 | |

GREATER OF

If the PROPOSED WINDOW AREA is greater than the MAXIMUM ALLOWABLE WINDOW AREA, go to another method.

MAX. ALLOWABLE

PROPOSED WINDOW AREA

Window Wall Ratio = Proposed Window Area Divided by Gross Exterior Wall Area

ATRIUM HEIGHT FT

IF ≤ 55 FT IF > 55 FT

| | | | | | | |
|---|---|---|---|---|---|---|
| 0.10 | X | | = | | | |
| 0.05 | X | | = | | | |
| | | GROSS ROOF AREA | | ALLOWED AREA | | |

If the ACTUAL SKYLIGHT AREA is greater than the ALLOWED SKYLIGHT AREA, go to another method. ACTUAL SKYLIGHT AREA

## OPAQUE SURFACES

| ASSEMBLY NAME (eg. Wall-1, Floor-1) | TYPE (eg. Roof, Wall, Floor) | HEAT CAPACITY | INSULATION R-VALUE* | | ASSEMBLY U-FACTOR* | | | |
|---|---|---|---|---|---|---|---|---|
| | | | PROPOSED | MINIMUM ALLOWED | PROPOSED | TABLE VALUES? Y | TABLE VALUES? N | MAXIMUM ALLOWED |
| | | | | | | ☐ | ☐ | |
| | | | | | | ☐ | ☐ | |
| | | | | | | ☐ | ☐ | |
| | | | | | | ☐ | ☐ | |
| | | | | | | ☐ | ☐ | |

* For each assembly type, meet the minimum insulation R-value or the maximum assembly U-factor.

## WINDOWS

| WINDOW NAME (e.g., Window-1, Window-2) | ORIENTATION N | E | S | W | U-FACTOR PROP. | ALLOW. | # OF PANES | PROPOSED RSHG SHGC | H | V | H/V | OHF | PROP. RSHG | ALLOWED RSHG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ☐ | ☐ | ☐ | ☐ | | | | | | | | | | |
| | ☐ | ☐ | ☐ | ☐ | | | | | | | | | | |
| | ☐ | ☐ | ☐ | ☐ | | | | | | | | | | |
| | ☐ | ☐ | ☐ | ☐ | | | | | | | | | | |

## SKYLIGHTS

| SKYLIGHT NAME (e.g., Sky-1, Sky-2) | GLAZING With Curb | With No Curb | Plastic | # OF PANES | U-FACTOR PROPOSED | U-FACTOR ALLOWED | SOLAR HEAT GAIN COEFFICIENT PROPOSED | SOLAR HEAT GAIN COEFFICIENT ALLOWED |
|---|---|---|---|---|---|---|---|---|
| | ☐ | ☐ | ☐ | | | | | |
| | ☐ | ☐ | ☐ | | | | | |
| | ☐ | ☐ | ☐ | | | | | |
| | ☐ | ☐ | ☐ | | | | | |